



# NMCPHC QUICK HITS

## Public Health Powered by Innovation

As the Navy and Marine Corps' center for public health services, our subject matter experts at the Navy and Marine Corps Public Health Center (NMCPHC) strive to ensure the mission readiness of our service members. Through innovative health research and expertise, NMCPHC provides the best and most accurate solutions for our clients and stakeholders. Prevention and protection start here.

### Public Health Center Attends Subs in Space Workshop



Members of the NMCPHC Industrial Hygiene department participated in the Subs in Space II Workshop at the NASA Johnson Space Center, Houston, and the White Sands Test Facility (WSTF), Las Cruces, New Mexico, Feb. 27-March 3. The workshop was an exchange of information regarding the maintenance of good air quality inside submarines and the International Space Station. Staff participated in discussion on protection of enclosed recirculating environments and had access to new research and materials provided by NASA. Through this workshop, the test protocol for the Navy Submarine Atmosphere Material Control Program was updated and staff members were able to tour the off-gas testing facility. Collaborations were an important byproduct of the workshop. [Click here to read the full story](#)

### Mapping Access to Care: Health Analysis GIS mapping



The Health Analysis (HA) Department's GIS mapping capability transforms traditional analyses into relatable and interactive graphics. The mapping capability helps Navy Medicine leaders visualize the unique challenges they face and potential available solutions. When developing these interactive maps, HA connects items such as patient demographics, location and medical needs. This transforms the data into digestible information to help leaders determine where to best to align personnel, equipment and facilities. Health Analysis' GIS mapping has set the tone for the future of healthcare solutions by informing evidence-based, patient-centered decisions. To see a demonstration of how you can connect health care resources with your patient needs, [click here!](#)

### Innovation – It's What Makes NECE Buzz



Disease vectors, such as malaria-transmitting mosquitoes and Lyme disease infected ticks, are constantly adapting to their environments. As these diseases develop resistance to current control tools, the health of service members is put at risk. "The Navy Entomology Center of Excellence's (NECE's) designation as a laboratory by the Office of Naval Research has allowed us to more aggressively pursue innovative technologies and partnerships that put NECE at the cutting edge of global health and ensure the readiness and health of our own forces," said Lt. Cmdr. Katie Barnes, NECE's assistant officer in charge. For example, the MinION nanopore sequencer is a portable, real-time DNA and RNA sequencer being developed to conduct field-level genetic identification of vector species, confirm the pathogens they carry and determine the vector's resistance to insecticides. "This technology will allow us to accurately identify the disease threats, communicate risk to our shipmates and choose the appropriate control measures to mitigate those risks for our personnel as well as the partner nation and civilian communities we work with on mission," said Lt. Cmdr. Ian Sutherland, NECE's Technical Director. [Click here to learn more about NECE](#)

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